Bay Delta Conservation Plan
Integration Team Meeting
February 24, 2009

HANDOUT #2

Draft Table of Potential BDCP Near-Term Actions and Criteria for Evaluation

The following draft table depicts the consultant's initial thoughts on the expected ability of potential near-term BDCP actions to meet the following list of criteria. Other near-term actions that could be considered include, but are not limited to: re-operation of the DCC and an intertie south of Clifton Court Forebay.

	Potential Near-Term Action			
Criteria	SDIP	Franks Tract (3-Mile Slough)	2-Gate project	Isolated Old River Corridor (4-Gates)
Magnitude of expected benefit to covered fish	▪ Benefits of project are primarily for agriculture. ▪ Head of Old River fish control gate would likely reduce the movement of fall-/late fall-run Chinook salmon into the south Delta via Old River. ▪ Additional benefit possible for passage of adult migrating salmonids during Sep-Oct closure of Old River to increase low DO in Stockton Deep Water Ship Channel.	▪ Gate would reduce movement of delta and longfin smelt into central Delta via 3-Mile Slough. ▪ Fish in San Joaquin River are pushed downstream, minimizing exposure to the central Delta	▪ Gates would reduce movement of delta and longfin smelt in the "zone of control" into the central Delta ▪ Structure designed to minimize predator habitat ▪ Gates would reduce entrainment of particles into CVP/SWP in Old River, but no reduction (in fact entrainment increases) at other east and south Delta locations (A. Munevar, pers. comm.)	▪ Gates would reduce entrainment of particles into CVP/SWP in Old River, but no reduction (in fact entrainment increases) at other east and south Delta locations (A. Munevar, pers. comm.)
Certainty of expected benefit to covered fish	▪ Based on effectiveness of temporary rock barriers at the HORB, certainty of magnitude is high. ▪ Based on DSM2 modeling	▪ Based on preliminary results	▪ Based on DSM2 modeling	▪ Based on DSM2 modeling

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Criteria	SDIP	Franks Tract (3-Mile Slough)	2-Gate project	Isolated Old River Corridor (4-Gates)
Time needed for implementation	▪ Once permitted, 2 years needed for construction (P. Marshall, pers. comm.)	▪ Possibly by 2012 (V. Pacheco, pers. comm.)	▪ By 2010 (D. Majors, pers. comm.)	▪ Unknown, may require significant infrastructure (dredging, channel widening, 4 gates)
Consistency with BDCP Goals and Objectives	▪ Consistent with BDCP co-equal goals of water supply and fish protection	▪ Consistent with BDCP co-equal goals of water supply and fish protection	▪ Consistent with BDCP co-equal goals of water supply and fish protection	▪ Consistent with BDCP co-equal goals of water supply and fish protection
Compatibility with other near-term actions	▪ Not compatible with an isolated Old River corridor – Old River would be closed during periods of year under SDIP.	▪ Yes, but "tricky to have [2-gate and Franks Tract projects] work compatibly" (D. Majors pers. comm.) ▪ May not be necessary to do this with 2-gate project	▪ Yes, but "tricky to have [2-gate and Franks Tract projects] work compatibly" (D. Majors pers. comm.) ▪ May not be necessary to do this with Franks Tract project	▪ Not compatible with SDIP – Old River must remain open under the Isolated Old River action
Compatibility with long-term actions	▪ Yes	▪ Yes – one of 3 planning goals is to develop water quality and fish protection consistent with long-term planning efforts (DWR 2008)	▪ Yes, but designed to be temporary	▪ Yes, but reduces benefits to habitat restoration
Ability to transition into long-term actions	▪ Yes	▪ Yes, but may not be necessary with limited south Delta diversions	▪ Yes, but designed to be temporary	▪ Yes, siphon for canal could be added
Reversibility/Not a stranded investment	▪ Permanent gates proposed	▪ Permanent gates proposed	▪ Temporary gates could be easily removed	▪ Significant infrastructure required

	Potential Near-Term Action			
Criteria	SDIP	Franks Tract (3-Mile Slough)	2-Gate project	Isolated Old River Corridor (4-Gates)
Potential negative effects on BDCP covered species	▪ May affect 13 federal or state-listed species or designated critical habitat, including delta smelt, green sturgeon, steelhead, and winter-run and spring-run Chinook salmon, although mitigation measures would be implemented (SDIP ASIP 2006).	▪ Structure may attract predators	▪ "Zone of influence" is only location at which fish benefits are found	▪ Entrainment increases at other east and south Delta locations (A. Munevar pers. comm.)
Cost of implementation	▪ $110 million	▪ $50-130 million, depending on design and location	▪ $26.5 million	▪ ???

References

DWR. 2008. Franks Tract Project. News Update 1. September 2008. Available at: http://www.water.ca.gov/frankstract/docs/FTNewsupdate1.pdf

USBR and DWR. 2006. South Delta Improvements Program. Action Specific Implementation Plan. June 2006. Available at: http://baydeltaoffice.water.ca.gov/sdb/sdip/documents/asip/asip_doc.html

Personal Communication

Major, Dennis. Engineer, MWDSC. Presentation to BDCP Integration Team on 2-Gate Project. 2/3/09.

Marshall, Paul. Engineer, DWR. Presentation to BDCP Integration Team on SDIP. 2/3/09.

Munevar, Armin. Engineer, CH2M Hill. Presentation to BDCP HOTT Team on particle tracking resutts of an Isolated Old River Corridor. 7/30/08.

Pacheco, Victor. Engineer, DWR. Presentation to BDCP Integration Team on Franks Tract Project. 2/3/09.